

Metropolitan **Planning** Council

Drinking Water 1-2-3

A guide for local officials and
community leaders.

Danielle Gallet
McHenry County Water Forum
September 12, 2018



Metropolitan**Planning**Council

Shaping a more
equitable, sustainable
and prosperous greater
Chicago region



**Immediate and
long-term
solutions**

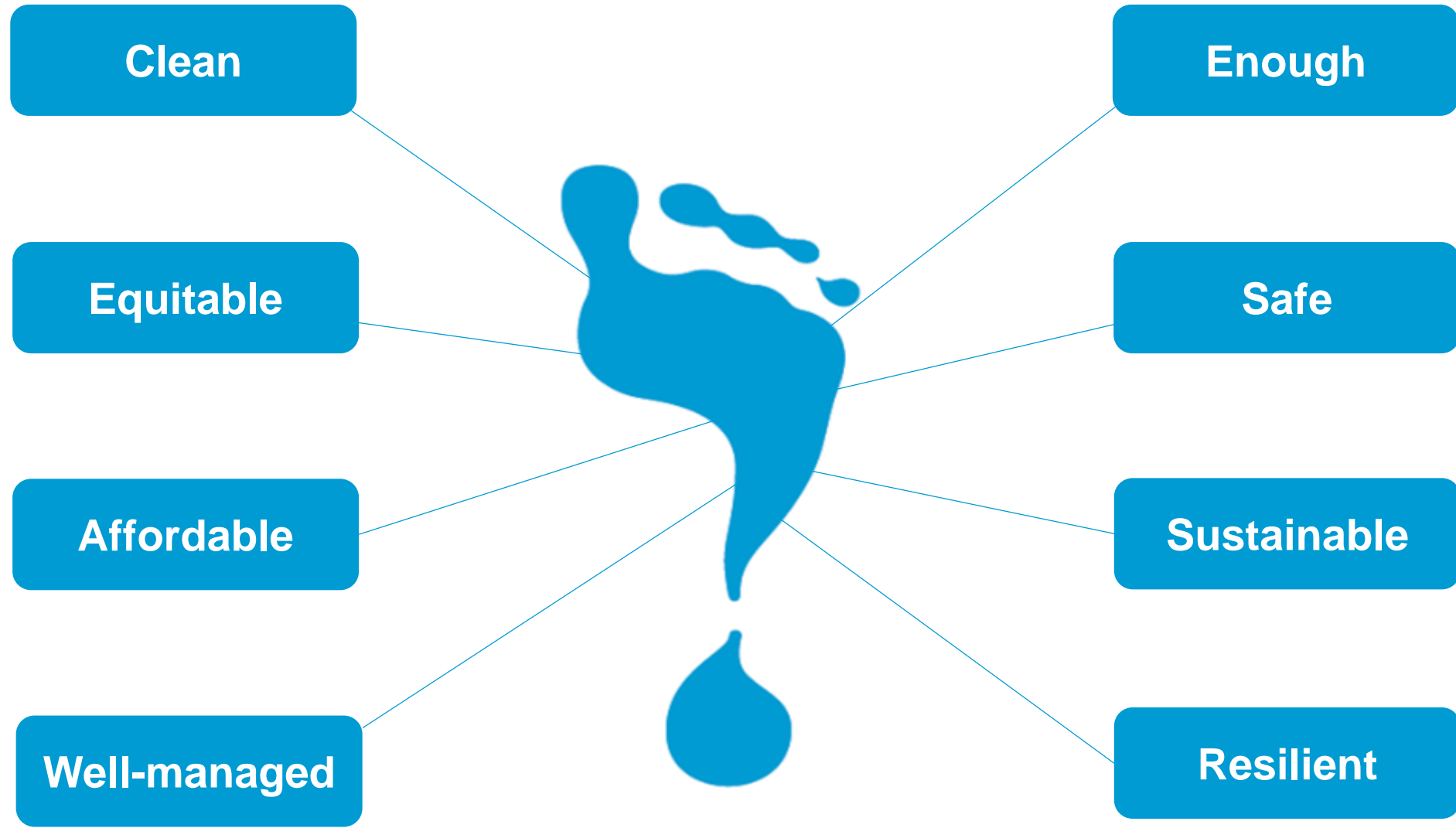


**Connect region's
assets**



**Partnerships with
governments,
communities and
business**



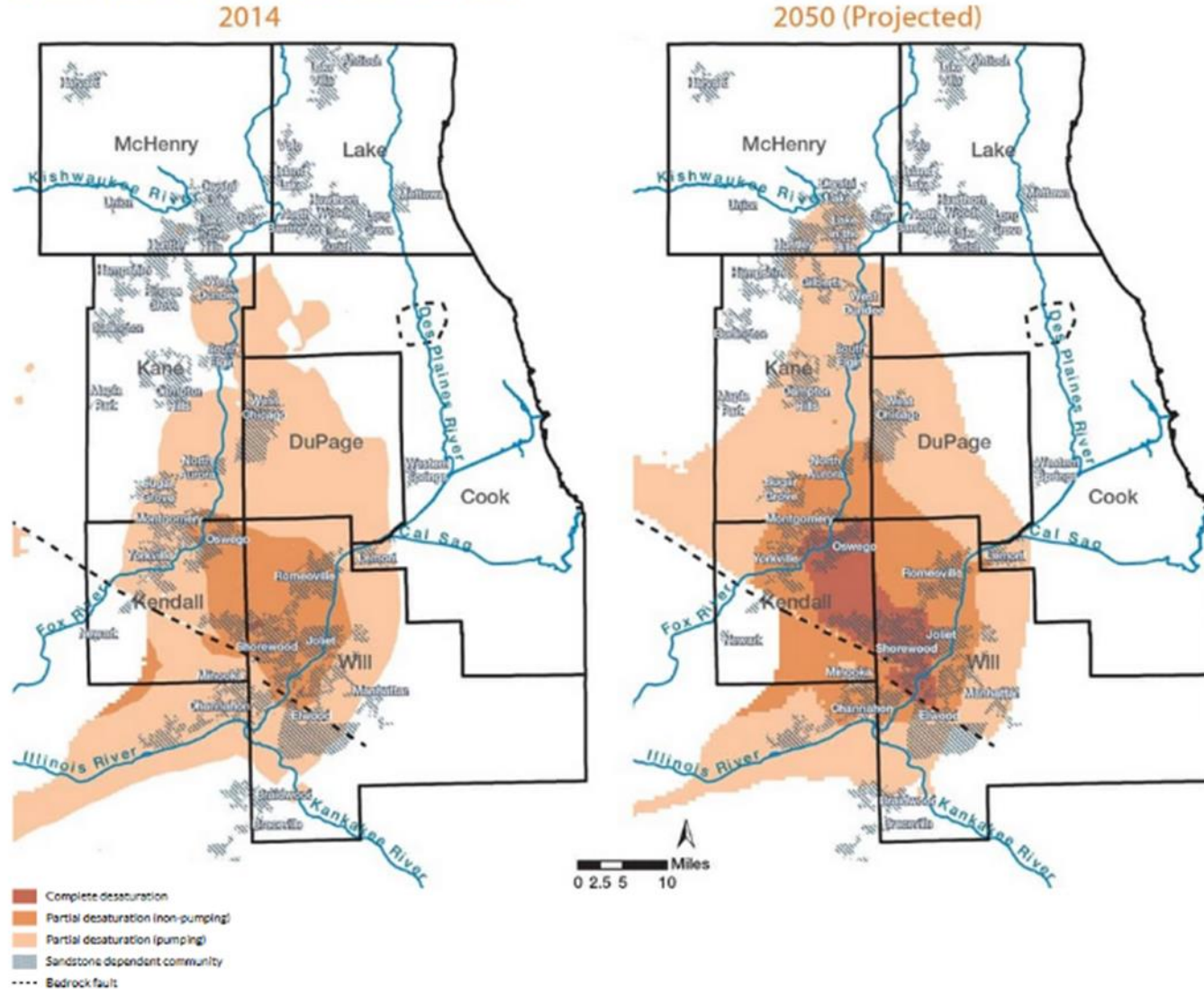


The Issues

What are our fundamental challenges today?

Enough?

Progression of groundwater depletion over time with continued well pumping



Some groundwater sources may be unusable in 5 -10 years.

Clean?



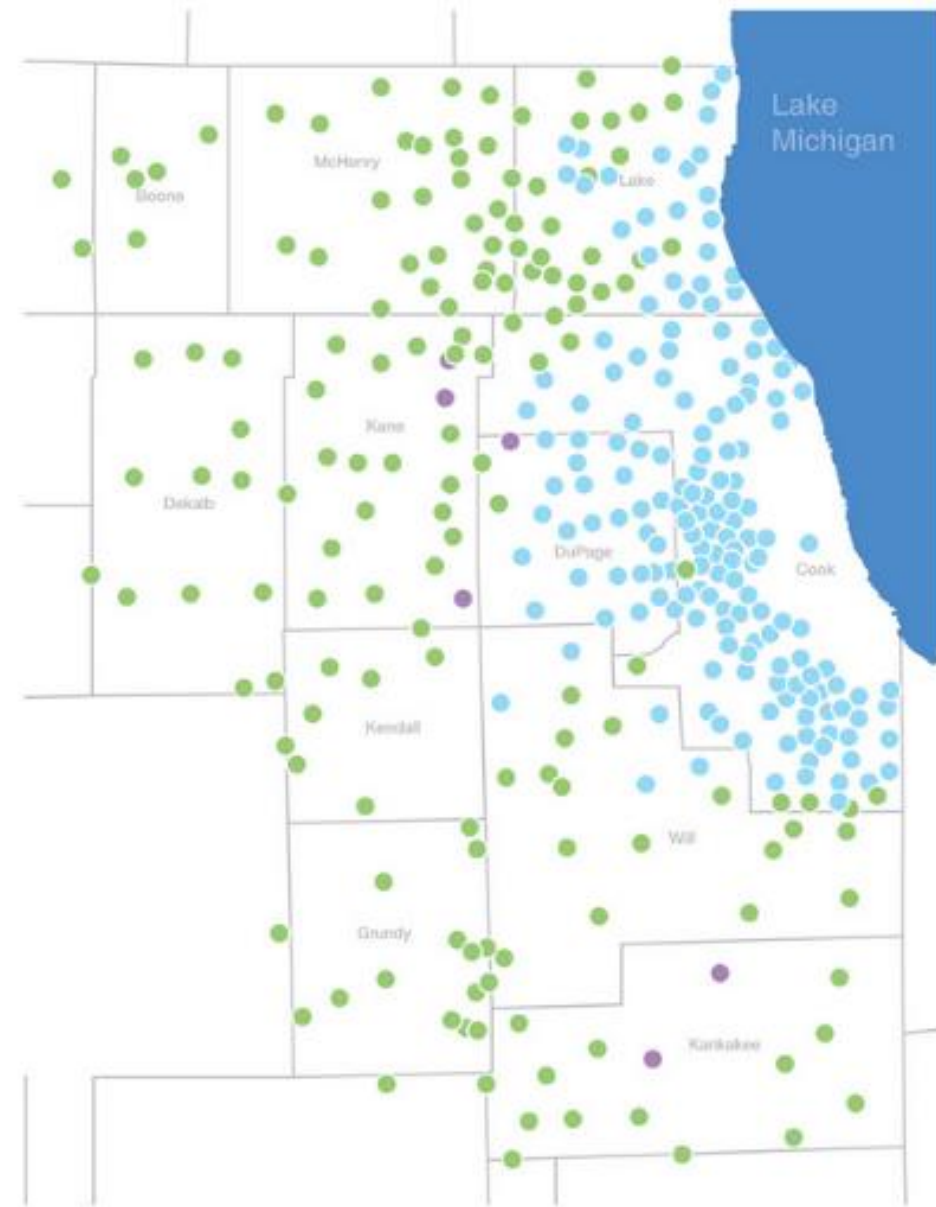
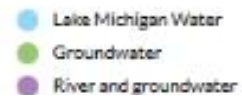
Safe?



About 1.3 Willis Towers of water are lost each week in Northeastern Illinois due to leaks.

Fragmented

Northeastern Illinois has more than 400 community water supply systems in operation.



Climate Change



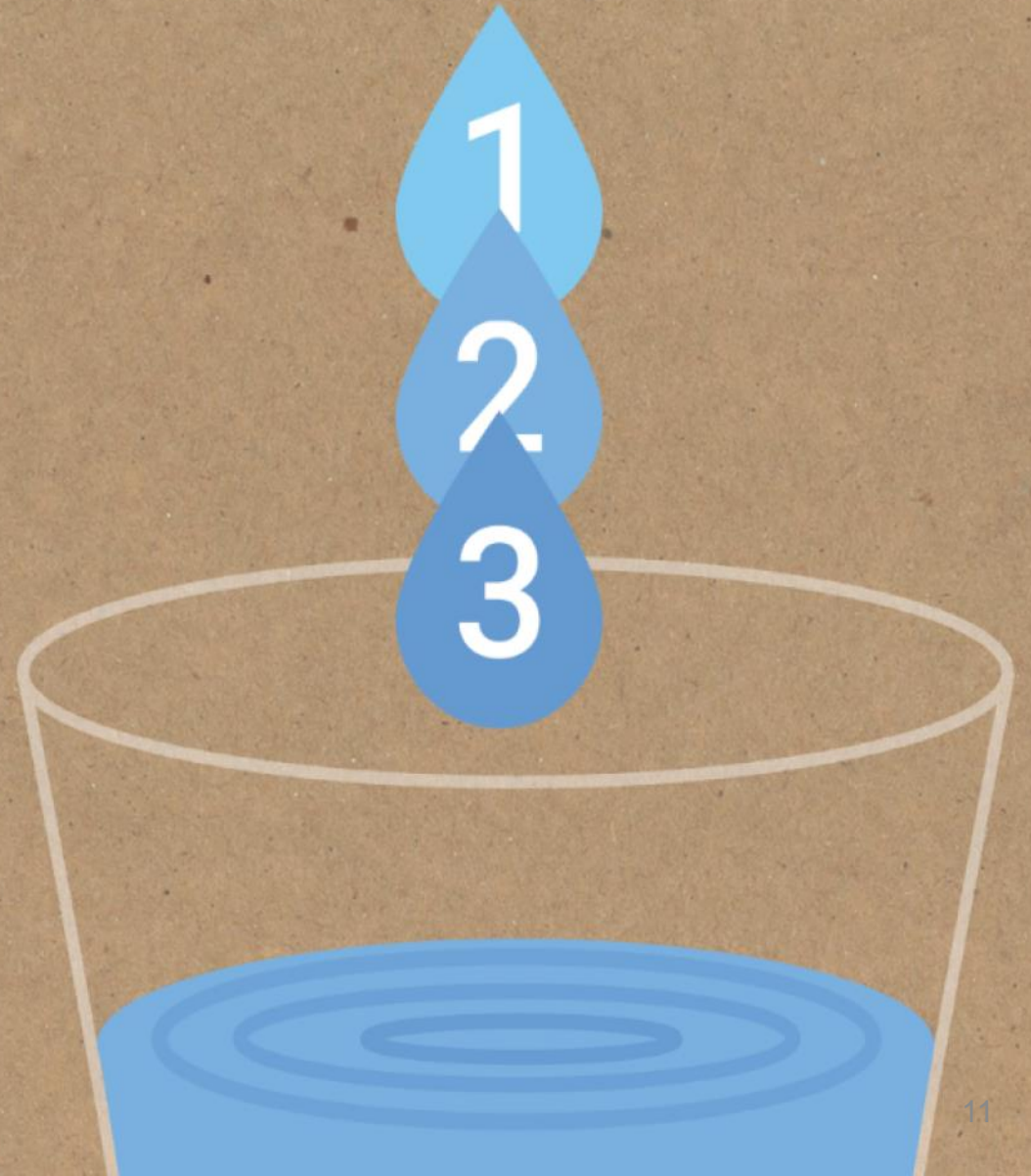
The Solutions

How do we move forward today?

www.metroplanning.org/drinkingwater123

Drinking Water 1-2-3

A guide for local officials and
community leaders.



Partners + Advisors



Chicago Metropolitan
Agency for Planning



American Water Works Association
IllinoisSection



Metropolitan
Mayors
Caucus



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A L L I A N C E



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Meet Your Water: An Introduction

Understanding Drinking Water in Northeastern Illinois

Sources
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Treatment
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Infrastructure
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Your Water's Keeper: Utilities and Regulators

Understand Drinking Water Management and Laws

Utility Management
P 25

Regulation
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Murky Waters: The Challenges We Face

Understand Drinking Water Issues in Our Region

Supply Constraints
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Pollution
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Crumbling
Infrastructure
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Fragmented Systems
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Climate Change
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GO

Taking Action: Your Guide to Important Practices

www.metroplanning.org/drinkingwater123

Understand the actions you need to take

Protect Your Source
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Ensure You Have Enough
P 55

Maintain Your Infrastructure
P 63

Finance Your System
P 70

Plan and Coordinate With
Your Neighbors
P 78

Engage Your Community
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Sensible Salting



Photo credit Todd Hoppenstedt, Village of Montgomery

- Anti-icing brine solution used before snow reduces road salt use
- Application innovation on trucks
- Service sharing between 2 municipalities—1 produces solution, 1 applies
- Reduced salt use 30-50% (\$75-150K in annual savings, including staff needs + overtime)
- Reduced water pollution!

Conserve Water + Reduce Flooding



Photo credit Metropolitan Water Reclamation District
of Greater Chicago

- New storm sewer + stormwater chamber under municipal park
- Partnership between Northbrook, IL, regional wastewater district, Park District + School District
- 7.5 million gallon chamber includes rainwater harvesting system
- Park uses rainwater to irrigate onsite while reducing chronic area flooding!

Demand Management = \$ Savings



- Aurora, IL approved water conservation ordinance in 2006
- Water demand has dropped by 20 gallons, per person, per day
- Capital improvement projects have been deferred indefinitely
- The ordinance has saved taxpayers an estimate \$7.5M over the past 10 years
- Reducing demand saves water + taxpayer money!



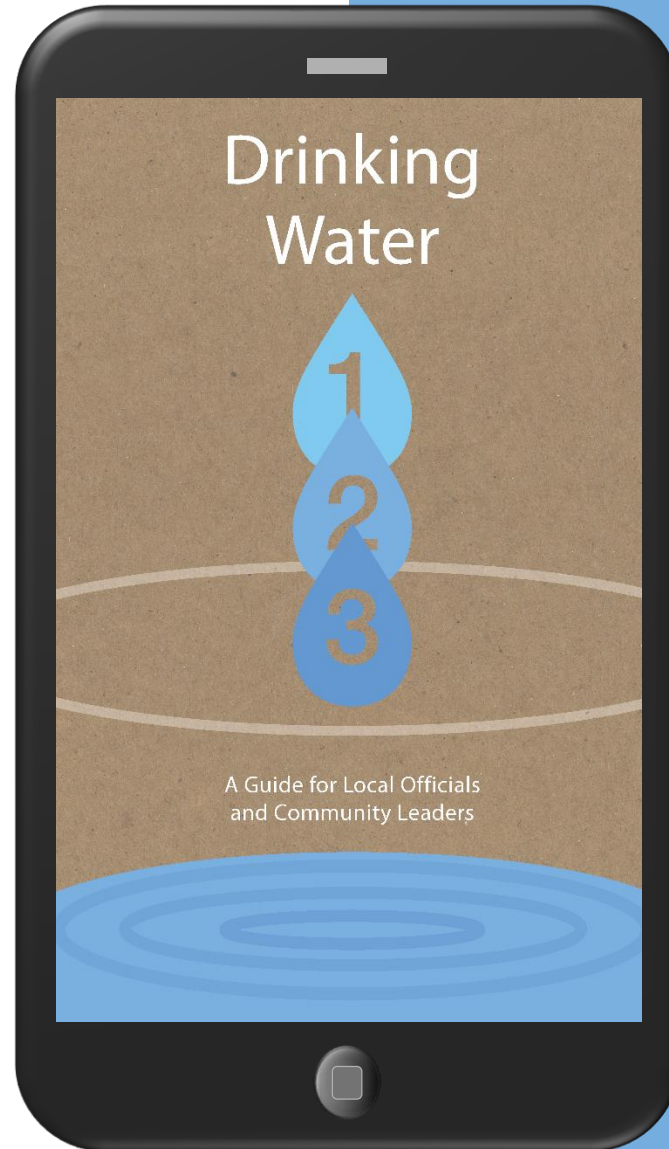
ENGAGE LEADERSHIP

Champions are a strong catalyst for progress + innovation.



Questions?

Thank you for helping spread the word!



Contact



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metroplanning.org/drinkingwater123

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